

OTHER NAMES:

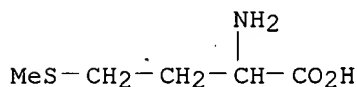
CN (.+-.)-Methionine
 CN .alpha.-Amino-.gamma.-methylmercaptobutyric acid
 CN Acimetion
 CN Amurex
 CN Banthionine
 CN Cynaron
 CN DL-2-Amino-4-(methylthio)butyric acid
 CN Dyprin
 CN Lactet
 CN Lobamine
 CN Meonine
 CN Methilalanin
 CN Metione
 CN Neston
 CN Pedameth
 CN Racemethionine
 CN Urimeth
 FS 3D CONCORD
 MF C5 H11 N O2 S
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,

BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, DIOGENES, EMBASE,
 GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
 MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, TULSA,
 ULIDAT, USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)



$$m=0$$

$$n=2$$

$$x = \text{COOR}^1$$

$$R^1 = H$$

$$y = \text{WR}^2\text{R}^3$$

$$R^2 = H$$

$$R^3 = H$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2871 REFERENCES IN FILE CA (1957 TO DATE)
 63 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 2874 REFERENCES IN FILE CAPLUS (1957 TO DATE)
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

= Formula,

- TI D-Methionine provides excellent protection from cisplatin
ototoxicity in the rat.
- AN 1997:33825 BIOSIS
- DN PREV199799340228
- TI D-Methionine provides excellent protection from cisplatin
ototoxicity in the rat.
- AU Campbell, Kathleen C. M. (1); Rybak, Leonard P.; Meech, Robert P.; Hughes,
Larry
- CS (1) Div. Otolaryngology, Dep. Surgery, SIU Sch. Med., P.O. Box 19230,
Springfield, IL 62794-1618 USA
- SO Hearing Research, (1996) Vol. 102, No. 1-2, pp. 90-98.
ISSN: 0378-5955.
- DT Article
- LA English
- AB Cisplatin (CDDP) is a widely used chemotherapeutic agent. Unfortunately,
CDDP is highly ototoxic. We tested D-methionine (D-Met), a
sulfur containing compound, as an otoprotectant in male Wistar rats.
Complete data sets were obtained for five groups of five animals each,
including a treated control group (16 mg/kg CDDP), an untreated control
group (administered an equivalent volume of saline) and three groups that
received either 75, 150, or 300 mg/kg D-Met 30 min prior to the 16 mg/kg
CDDP dosing. Auditory brainstem response (ABR) thresholds were obtained in
response to clicks, and 1 kHz, 4 kHz, 8 kHz, and 14 kHz toneburst stimuli,
before and 3 days after drug administration. Scanning electron microscopy
(SEM) was used to examine the outer hair cells of the apical, middle and
basal turns of the cochlea. Animal weight was measured on the first and
final day. D-Met provided excellent otoprotection even at the lowest level
with complete otoprotection obtained for the 300 mg/kg dosing as measured
by both ABR and SEM. D-Met also markedly reduced weight loss and
mortality. All animals receiving D-Met (15/15) survived to the end of the
study period as opposed to only 5/10 of the treated controls.
D-Methionine provides excellent protection from cisplatin
ototoxicity in the rat.
- SO Hearing Research, (1996) Vol. 102, No. 1-2, pp. 90-98.
ISSN: 0378-5955.
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Complete data sets were obtained for five.
- IT Major Concepts
- IT Biochemistry and Molecular Biophysics; Nervous System (Neural
Coordination); Pharmacology; Toxicology
- IT Chemicals & Biochemicals
- IT D-METHIONINE; CISPLATIN; METHIONINE
- IT Miscellaneous Descriptors
- IT ANALYTICAL METHOD; AUDITORY BRAINSTEM RESPONSE; CISPLATIN; D-
METHIONINE; EAR DISEASE; MALE; METHIONINE;
OTOOTOXICITY; PHARMACOLOGY; SCANNING ELECTRON MICROSCOPY; SENSE
ORGANS; TOXICITY; TOXICOLOGY; TOXIN
- RN 348-67-4 (D-METHIONINE)
15663-27-1 (CISPLATIN)
63-68-3 (METHIONINE)